

Claims

What is claimed is:

1. A medical device, comprising:
5 an elongated member having a proximal end and a distal end;
a first radially expandable body surrounding the distal end of the member;
a stent surrounding the first body, wherein radial expansion of the first body
radially expands the stent; and
a second radially expandable body surrounding the stent, wherein the first
10 and second bodies are independently expandable.
2. The device of claim 1, wherein the distal end of the member is blunted.
3. The device of claim 1, wherein the first and second bodies are
balloons.
4. The device of claim 1, wherein the first and second bodies expand
15 elastically.
5. The device of claim 1, wherein the stent expands plastically.
6. The device of claim 1, wherein the second body is an annular balloon.
7. The device of claim 1, further comprising a haemostatic coating
surrounding the second body.
- 20 8. The device of claim 1, wherein the first and second bodies and the
stent extend along a majority length of the member.
9. The device of claim 1, wherein the elongated member and the first
body are removable from the device.
10. The device of claim 1, wherein the elongated member is axially rigid.

11. The device of claim 1, further comprising an emitter, configured to send navigational signals.

12. A method of treating a brain, comprising:
inserting an elongated device into the brain to create a path;
5 radially expanding the device to create a working channel along the path; and
introducing a medical element into the working channel to perform a medical procedure on the brain.

13. The method of claim 12, wherein the medical element is an instrument...

10 14. The method of claim 12, wherein the medical element is a medicament..

15. The method of claim 12, further comprising creating an opening in a cranium, and inserting the elongated device through the opening.

16. The method of claim 12, further comprising inserting the elongated
15 device between tissue layers within the brain..

17. The method of claim 12, further comprising radially contracting and removing the device from the brain.

18. A method of treating a tissue, comprising:
placing an elongated device into the tissue to create a path;
20 radially expanding the device against the tissue to radially displace the tissue along the path;

radially reinforcing the device against the tissue; and
introducing a medical element through the device to perform a medical procedure on the tissue.

19. The method of claim 18, wherein the medical element is an instrument.

20. The method of claim 18, wherein the medical element is a medicament.

21. The method of claim 18, further comprising inserting the elongated
5 device between tissue layers..

22. The method of claim 18, further comprising radially contracting and removing the device from the tissue.

23. The method of claim 18, further comprising treating the tissue in contact with the device with a haemostatic compound to reduce bleeding...

10 24. A method of treating a tissue, comprising:

placing an elongated device, having a first radially expandable body, surrounded by a stent, which is surrounded by a second radially expandable body, into the tissue to create a path;

radially expanding the second expandable body against the tissue to radially
15 displace the tissue along the path;

radially expanding the first expandable body to radially expand the stent to reinforce the second expandable body against the tissue;

radially contracting and removing the first expandable body to create a working channel through the stent;

20 introducing a medical element through the channel to perform a medical procedure on the tissue; and

radially contracting the second expandable body and removing the device from the tissue.

25 25. The method of claim 24, wherein the medical element is an instrument.

26. The method of claim 24, wherein the medical element is a medicament.
27. The method of claim 24, further comprising inserting the elongated device between tissue layers.
28. The method of claim 24, further comprising treating the tissue in
5 contact with the device with a haemostatic compound to reduce bleeding.